## REMARKS

Favorable action is respectfully requested.

The Director is authorized to charge any fee deficiency required by this paper or credit any overpayment to Deposit Account No. 23-1123.

Respectfully submitted,

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## MARKED-UP VERSION OF REPLACEMENT CLAIMS

- 1. (Amended) Process for calculating the position of a mobile station (MS) belonging to a cellular radiocommunication system, starting from an identifier of a current geographic cell in which the said mobile station is located, characterized in that it includes the following steps:
- calculate a model+ed geographic representation (5) of the current cell;
- calculate the barycentre (6) of the said modelled geographic representation of the current cell;
- calculate an uncertainty area (7), with a predetermined geometric shape, centered on the said barycentre and the area of which is approximately equal to the area of the said model+ed geographic representation of the current cell; and in that the position of the mobile station is defined by the said barycentre, with an uncertainty equal to the said uncertainty area.
- 2. (Amended) Process according to claim 1, characterised in that the said calculation of a modelled geographic representation (5) of the current cell consists of using a radio prediction tool to calculate a set of points in which the radio frequency field in the current cell is stronger than that in other cells.
- 3. Process according to either of claims 1 or claim 2, characterised in that the said geometric shape belongs to the group comprising;
  - disks:
- polygons, preferably hexagons, squares and equilateral triangles.  $\div$

- 4. (Amended) Process according to either of claims 1 or 2, characterised in that the said geometric shape is a polygon and in that the said polygon is oriented along the largest direction of the current cell.
- 5.(Amended) Process according to any one of claims 1 to 4claim 2, characterised in that the position of the mobile station is calculated dynamically.
- 6.(Amended) Process according to any one of claims 1 to 5claim 2, characterised in that it comprises a prior step to extract the identifier of the current cell from at least one signal message circulating on the radiocommunication system network.
- 7. Claim 7 is unchanged.
- 8.(Amended) Process according to any one of claims 1 to 7claim 2, characterised in that the position of the mobile station and the associated uncertainty are input into a positioning database (2) so that at least one geodependent service can be provided.
- 9. Claim 9 is unchanged.
- 10.(Amended) <u>ProcessDevice</u> according to claim 9, characterised in that it is integrated into a radio frequency planning tool (4) for the geographic cells in the said cellular radiocommunication system.
- 11. Claim 11 is canceled.
- 12. Computer program intended for calculating the position of a mobile station (MS) belonging to a cellular radiocommunication

system starting from an identifier of a current geographic cell in which the said mobile station is located, the said computer program comprising portions / means / program code instructions recorded on a medium that can be used in a computer, comprising:

- programming means that can be read by a computer to perform the calculation step for a model+ed geographic representation (5) of the current cell;
- programming means that can be read by a computer to perform the calculation step to determine the barycentre (6) of this said modeled geographic representation of the current cell;
- programming means that can be read by a computer to perform the calculation step to determine an uncertainty area (7) with a predetermined geometric shape centered on the said barycentre and the area of which is approximately equal to the area of the said model ded geographic representation of the current cell;

the position of the mobile station being defined by the barycentre, with an uncertainty equal to the uncertainty area.